

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	809	(707/104.1.ccls. 707/10.ccls. 707/203. ccls. 717/168.ccls.) and ((updat\$3 upgrad\$3) with (configuration software server) with version)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 10:57
L2	26	(707/104.1.ccls. 707/10.ccls. 707/203. ccls. 717/168.ccls.) and ((updat\$3 upgrad\$3) with (configuration software server) with version) and ((master with slave) master\$1slave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 11:00
L3	1	(707/104.1.ccls. 707/10.ccls. 707/203. ccls. 717/168.ccls.) and ((updat\$3 upgrad\$3) with (configuration software server) with version) and ((master with slave) master\$1slave) and (websphere web\$1sphere)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 10:59
L4	1	(707/104.1.ccls. 707/10.ccls. 707/203. ccls. 717/168.ccls.) and ((updat\$3 upgrad\$3) with (configuration software server) with version) and ((master with slave) master\$1slave) and XSL	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 11:01
L5	10	(707/104.1.ccls. 707/10.ccls. 707/203. ccls. 717/168.ccls.) and ((updat\$3 upgrad\$3) with (configuration software server) with version) and XSL	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 11:01
L6	1	(707/104.1.ccls. 707/10.ccls. 707/203. ccls. 717/168.ccls.) and ((updat\$3 upgrad\$3) with (configuration software server) with version) and (XSL with schema)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 11:01
L7	1	(707/104.1.ccls. 707/10.ccls. 707/203. ccls. 717/168.ccls.) and ((updat\$3 upgrad\$3) with (configuration software server) with version) and XSL and (web\$1sphere)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 11:02

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L8	3	((updat\$3 upgrad\$3) with (configuration software server) with version) and XSL and (web\$1sphere) and ((master with slave) master\$1slave)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 11:03
S1	2	"20050203953"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 14:06
S2	1742	websphere	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/26 11:11
S3	119	(websphere with (version "5.x" "6.x"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/26 11:11
S4	1107	((updat\$3 upgrad\$3) with configuration with version)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 10:55
S5	167	((updat\$3 upgrad\$3) with configuration with version) same ((application with server) node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 13:09
S6	62	((updat\$3 upgrad\$3) with configuration with (file data) with version) same ((application with server) node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 13:09

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S7	3	((updat\$3 upgrad\$3) with configuration with (file data) with version) same ((application with server) node) and websphere	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 13:10
S8	3	((updat\$3 upgrad\$3) with configuration with (file data) with version) same ((application with server) node) and web\$1sphere	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 14:04
S9	3	((updat\$3 upgrad\$3) with (file data) with version) same ((application with server) node) and web\$1sphere and (configuration with (updat\$3 chang\$3 upgrad\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 14:05
S10	2	"20050203953" and apparatus	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/28 14:06
S11	116	((fault adj tolerance) with number with (disk device member))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/29 16:03
S12	40	((fault adj tolerance) with number with (disk device member)) and replica\$6	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/29 16:08
S13	4	((fault adj tolerance) with number with (disk device member)) and replica\$6 and (relocat\$4 with (data content))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/29 16:10

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S14	0	((fault adj tolerance) with number with (disk device member)) and replica\$6 and (relocat\$4 with (data content) with fail\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/29 16:10
S15	49	replica\$6 and (relocat\$4 with (data content) with fail\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/29 16:10
S16	1	"20050203953" and cell	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/02 11:19
S17	1	"20050203953" and (server)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/02 11:19
S18	1	"20050203953" and (data with processing with unit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/02 14:25
S19	2	"20050203953" and apparatus	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/03 13:44
S20	0	"20050203953" and ((software hardware server) near node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/03 13:45

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S21	2	"20050203953" and (node)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/03 13:45
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» Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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Cook, J.E.; Dage, J.A.;
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M.;
[Nuclear Science Symposium and Medical Imaging Conference Record, 1995.](#)
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[IEEE International Workshops on](#)
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[Power Modulator Symposium, 2002 and 2002 High-Voltage Workshop. Confer](#)
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Green, G.L.; Gerten, G.;
[Aerospace Conference Proceedings, 2000 IEEE](#)
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upgrad\$ AND (version\$) AND ("configuration settings") AND websphere

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Method and apparatus for maintaining compatibility within a ...

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1 [Service oriented architectures: approaches, technologies and research issues](#)

Mike P. Papazoglou, Willem-Jan Heuvel

 July 2007 **The VLDB Journal — The International Journal on Very Large Data Bases**,
Volume 16 Issue 3

Publisher: Springer-Verlag New York, Inc.

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

Service-oriented architectures (SOA) is an emerging approach that addresses the requirements of loosely coupled, standards-based, and protocol-independent distributed computing. Typically business operations running in an SOA comprise a number of invocations of these different components, often in an event-driven or asynchronous fashion that reflects the underlying business process needs. To build an SOA a highly distributable communications and integration backbone is required. This function ...

Keywords: Application and service integration, Asynchronous and event-driven processing, Enterprise bus, Service oriented architecture, Web services

2 [Compilation: Dynamic compilation: the benefits of early investing](#)



Prasad Kulkarni, Matthew Arnold, Michael Hind

 June 2007 **Proceedings of the 3rd international conference on Virtual execution environments VEE '07**
Publisher: ACM Press

 Full text available: pdf(270.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Dynamic compilation is typically performed in a separate thread, asynchronously with the remaining application threads. This compilation thread is often scheduled for execution in a simple round-robin fashion either by the operating system or by the virtual machine itself. Despite the popularity of this approach in production virtual machines, it has a number of shortcomings that can lead to suboptimal performance.

This paper explores a number of issues surrounding asynchronous dynamic ...

Keywords: Java, dynamic compilation, virtual machines

3

[Quality Attributes for Service-Oriented Architectures](#)

Liam O'Brien, Paulo Merson, Len Bass

May 2007 **Proceedings of the International Workshop on Systems Development in SOA Environments SDSOA '07**

Publisher: IEEE Computer Society

Full text available:  pdf(246.74 KB) Additional Information: [full citation](#), [abstract](#)

The SOA approach is a very popular choice today for the implementation of distributed systems. The use of SOA or more specifically the Web services technology is an important architecture decision. An architect should understand how different quality attributes for a system are impacted by that decision. While there are significant benefits with respect to interoperability and modifiability, other qualities such as performance, security and testability are concerns. This paper discusses how the ...

4 Business process modeling: business transformation: IBM SmartSCOR - a SCOR based supply chain transformation platform through simulation and optimization techniques

Jin Dong, Hongwei Ding, Changrui Ren, Wei Wang

December 2006 **Proceedings of the 38th conference on Winter simulation WSC '06**

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Identified as a strategic area, supply chain transformation plays a critical role in today's IBM business. In this paper, we introduce an effort in IBM Research Division named SmartSCOR, which provides a comprehensive framework and methodology for On-Demand SCM problem-solving based on the cross-industry process standard Supply Chain Operations Reference (SCOR) model and a variety of simulation/optimization techniques. SmartSCOR sees transformation in two different levels, from supply chain stra ...

5 Web services: A design technique for evolving web services



Piotr Kaminski, Marin Litoiu, Hausi Müller

October 2006 **Proceedings of the 2006 conference of the Center for Advanced Studies on Collaborative research CASCON '06**

Publisher: ACM Press

Full text available:  pdf(278.85 KB)  htm(1.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we define the problem of simultaneously deploying multiple versions of a web service in the face of independently developed unsupervised clients. We then propose a solution in the form of a design technique called Chain of Adapters and argue that this approach strikes a good balance between the various requirements. We recount our experiences in automating the application of the technique and provide an initial analysis of the performance degradations it may occasion. The Chain of ...

6 Research demonstrations: data base and business process: A framework for automatic generation of evolvable e-commerce workplaces using business processes



Ying Zou, Qi Zhang

May 2006 **Proceeding of the 28th international conference on Software engineering ICSE '06**

Publisher: ACM Press

Full text available:  pdf(176.80 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Business processes encapsulate the knowledge of operations and services provided by organizations. Due to the changing nature of business processes, the design and implementation of e-commerce applications, such as workplace applications, could not be evolved consistently to support changing business requirements. E-commerce workplaces suffer from design and usability problems and may not conform to updated and constantly changing business processes. In this research demonstration, we present a ...

Keywords: business process, e-commerce applications, software engineering, software evolution, user interface design

7 Industry track: Utility-based collaboration among autonomous agents for resource allocation in data centers



Rajarshi Das, Ian Whalley, Jeffrey O. Kephart

May 2006 **Proceedings of the fifth international joint conference on Autonomous agents and multiagent systems AAMAS '06**

Publisher: ACM Press

Full text available: pdf(332.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Autonomic computing, a proposed solution to the looming complexity crisis in IT, is a realm in which software agents and multi-agent systems can play a critically important role. Conversely, given its importance to a multi-billion dollar industry, it is fair to say that autonomic computing is a *killer app* for agents. Two years ago, we introduced Unity, an agent-based autonomic data center prototype that demonstrated the virtues of agency in autonomic computing applications. We discuss the ...

Keywords: autonomic computing, data centers, resource allocation, utility functions

8 EDO: Exception-directed optimization in java



Takeshi Ogasawara, Hideaki Komatsu, Toshio Nakatani

January 2006 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(764.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Optimizing exception handling is critical for programs that frequently throw exceptions. We observed that there are many such exception-intensive programs written in Java. There are two commonly used exception handling techniques, stack unwinding and stack cutting. Stack unwinding optimizes the normal path by leaving the exception handling path unoptimized, while stack cutting optimizes the exception handling path by adding extra work to the normal path. However, there has been no single excepti ...

Keywords: Feedback-directed dynamic optimization, dynamic compilers, exception handling, inlining

9 A region-based compilation technique for dynamic compilers



Toshio Suganuma, Toshiaki Yasue, Toshio Nakatani


January 2006 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 28 Issue 1

Publisher: ACM Press

Full text available: pdf(977.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Method inlining and data flow analysis are two major optimization components for effective program transformations, but they often suffer from the existence of rarely or never executed code contained in the target method. One major problem lies in the assumption that the compilation unit is partitioned at method boundaries. This article describes the design and implementation of a region-based compilation technique in our dynamic optimization framework, in which the compiled regions are selected ...



Keywords: JIT compiler, Region-based compilation, dynamic compilation, on-stack replacement, partial inlining

- 10 Automated workplace design and reconfiguration for evolving business processes 
Qi Zhang, Ying Zou, Tack Tong, Ross McKegney, Jen Hawkins
October 2005 **Proceedings of the 2005 conference of the Centre for Advanced Studies
on Collaborative research CASCON '05**

Publisher: IBM Press

Full text available:  pdf(274.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this ever-changing business environment, business processes are constantly being customized to reflect the up-to-date organizational structure and business objectives. Furthermore, technological updates and innovation also affect the way business is carried out. A workplace application provides an interactive electronic working environment that integrates software applications to assist users in performing their daily work more efficiently. It is challenging to maintain workplace applications ...



- 11 Graphical and visual information II: The use of eBooks and interactive multimedia as
alternative forms of technical documentation 
 Gord Davison, Steve Murphy, Rebecca Wong
September 2005 **Proceedings of the 23rd annual international conference on Design of
communication: documenting & designing for pervasive information
SIGDOC '05**

Publisher: ACM Press

Full text available:  pdf(369.19 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The use of eBooks and interactive multimedia in technical documentation is an emerging and important trend for delivering abstract and complex technical information that is enticing, engaging, and -most important of all- effective. With the substantial (and growing) number of documents available electronically, it is a non-trivial task for technical writers to even reach their target audience, let alone engage them. Both eBooks and interactive multimedia feature unique characteristics that serve ...

Keywords: animation, audio, diagrams, documentation, eBook, graphic design, human factors, illustrations, user testing, visualization


- 12 Design and evaluation of dynamic optimizations for a Java just-in-time compiler 
 Toshio Sukanuma, Toshiaki Yasue, Motohiro Kawahito, Hideaki Komatsu, Toshio Nakatani
July 2005 **ACM Transactions on Programming Languages and Systems (TOPLAS),
Volume 27 Issue 4**

Publisher: ACM Press

Full text available:  pdf(1.60 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The high performance implementation of Java Virtual Machines (JVM) and Just-In-Time (JIT) compilers is directed toward employing a dynamic compilation system on the basis of online runtime profile information. The trade-off between the compilation overhead and performance benefit is a crucial issue for such a system. This article describes the design and implementation of a dynamic optimization framework in a production-level Java JIT compiler, together with two techniques for profile-directed o ...

Keywords: JIT compiler, Recompilation, adaptive optimization, code specialization, dynamic compilation, profile-directed method inlining

- 13 Toward an engineering discipline for grammarware 
Paul Klint, Ralf Lämmel, Chris Verhoef

July 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM),**

Volume 14 Issue 3

Publisher: ACM PressFull text available: pdf(710.42 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Grammarware comprises grammars and all grammar-dependent software. The term *grammar* is meant here in the sense of all established grammar formalisms and grammar notations including context-free grammars, class dictionaries, and XML schemas as well as some forms of tree and graph grammars. The term *grammar-dependent software* refers to all software that involves grammar knowledge in an essential manner. Archetypal examples of grammar-dependent software are parsers, program converters ...

Keywords: Grammarware, automated software engineering, best practices, generic language technology, grammar-dependent software, grammars, language processing, metamodeling, model-driven development, parsers, software evolution, software transformation

14 Distrbuted VEEs: PDS: a virtual execution environment for software deployment

Bowen Alpern, Joshua Auerbach, Vasanth Bala, Thomas Frauenhofer, Todd Mummert, Michael Pigott

June 2005 **Proceedings of the 1st ACM/USENIX international conference on Virtual execution environments VEE '05****Publisher:** ACM PressFull text available: pdf(299.26 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

The Progressive Deployment System (PDS) is a virtual execution environment and infrastructure designed specifically for deploying software, or "assets", on demand while enabling management from a central location. PDS intercepts a select subset of system calls on the target machine to provide a partial virtualization at the operating system level. This enables an asset's install-time environment to be reproduced virtually while otherwise not isolating the asset from peer applications on the targ ...

Keywords: deployment, installation, management, streaming, virtualization

15 Practitioner reports: Second generation web services-oriented architecture in production in the finance industry

Olaf Zimmermann, Sven Milinski, Michael Craes, Frank Oellermann

October 2004 **Companion to the 19th annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications OOPSLA '04****Publisher:** ACM PressFull text available: pdf(303.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citings](#), [index terms](#)

Effective and affordable business process integration is a key concern in the finance industry. A large German joint-use centre, supplying services to 237 individual savings banks, enhanced the integration capabilities of its core banking system, consisting of more than 500 complex functions, through aggressive use of Web services.

Advanced requirements such as heterogeneous client environment, sub-second response times, 300% traffic growth, and interface complexity did challenge today ...

Keywords: CICS, HTTP, SOAP, UDDI, WSDL, XML, XML schema, application server, business process, compression, core banking, enterprise application integration, service-

oriented architecture, software architecture, web application, web services, webSphere

16 Manageability: An approach to benchmarking configuration complexity



Aaron B. Brown, Joseph L. Hellerstein

September 2004 **Proceedings of the 11th workshop on ACM SIGOPS European workshop: beyond the PC EW11**

Publisher: ACM Press

Full text available: pdf(107.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Configuration is the process whereby components are assembled or adjusted to produce a functional system that operates at a specified level of performance. Today, the complexity of configuration is a major impediment to deploying and managing computer systems. We describe an approach to quantifying configuration complexity, with the ultimate goal of producing a configuration complexity benchmark. Our belief is that such a benchmark can drive progress towards self-configuring systems. Unlike trad ...

17 Departments: Toolkit: Eclipse: A Platform Becomes an Open-Source Woodstock



Alexander Wolfe

November 2003 **Queue**, Volume 1 Issue 8

Publisher: ACM Press

Full text available: pdf(356.62 KB) html(10.62 KB) Additional Information: [full citation](#), [index terms](#)

18 Experience reports: software architecture II: The co-evolution of a hype and a software architecture: experience of component-producing large-scale EJB early adopters



Lutz Prechelt

May 2003 **Proceedings of the 25th International Conference on Software Engineering ICSE '03**

Publisher: IEEE Computer Society

Full text available: pdf(367.70 KB) Publisher Site Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

abaXX.components was one of the first API software products fully based on Enterprise JavaBeans™ (EJB) technology. We describe the evolution of its architecture as it moved from simply taking the initial EJB hype for the truth, through several intermediate stages, to using EJB simply as one of several encapsulated implementation techniques. So far, the public perception of how to use EJB properly evolved along a similar path, lagging 6 to 12 months behind.

19 Article abstracts with full text online: How scalable is J2EE technology?



Paul Brebner, Jeffrey Gosper

May 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 3

Publisher: ACM Press

Full text available: pdf(315.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

ECperf, the widely recognized industry standard J2EE benchmark, has attracted a large number of results submissions and their subsequent publication. However, ECperf places little restriction on the hardware platform, operating systems and databases utilized in the benchmarking process. This, combined with the existence of only two primary metrics, makes it difficult to answer critical questions such as "Is there a limit to J2EE scalability?" and "Is scale-up or scale-out more effective?". By mi ...

Keywords: Enterprise Java Beans (EJB), J2EE, scalability, scale-out, scale-up

20 BlueBoX: A policy-driven, host-based intrusion detection system



Suresh N. Chari, Pau-Chen Cheng

May 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6
Issue 2

Publisher: ACM Press

Full text available:  pdf(385.64 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Detecting attacks against systems has, in practice, largely been delegated to sensors, such as network intrusion detection systems. However, due to the inherent limitations of these systems and the increasing use of encryption in communication, intrusion detection and prevention have once again moved back to the host systems themselves. In this paper, we describe our experiences with building BlueBox, a host-based intrusion detection system. Our approach, based on the technique of system call introspection

Keywords: Intrusion detection, policy, sandboxing, system call introspection

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21 [Eclipse help system: an open-source user assistance offering](#)



Kari L. Halsted, James H. (Jamie) Roberts

 October 2002 **Proceedings of the 20th annual international conference on Computer documentation SIGDOC '02**

Publisher: ACM Press

Full text available: pdf(365.82 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we discuss the theoretical and practical elements of designing an open source User Assistance (UA) System. Specifically, we introduce UCD requirements, including those to accommodate different user modes for UA architectures and complex document integration. We then detail how these requirements were delivered in the open source Eclipse project.

Keywords: eclipse user assistance, user assistance, user-centered design

22 [Special issue on the PAPA 2002 workshop: Performance study of dispatching algorithms in multi-tier web architectures](#)



Mauro Andreolini, Michele Colajanni, Ruggero Morselli

 September 2002 **ACM SIGMETRICS Performance Evaluation Review**, Volume 30 Issue 2

Publisher: ACM Press

Full text available: pdf(1.16 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The number and heterogeneity of requests to Web sites are increasing also because the Web technology is becoming the preferred interface for information systems. Many systems hosting current Web sites are complex architectures composed by multiple server layers with strong scalability and reliability issues. In this paper we compare the performance of several combinations of centralized and distributed dispatching algorithms working at the first and second layer, and using different levels of st ...

23 [The state of the art in locally distributed Web-server systems](#)



Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

 June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Publisher: ACM Press

Full text available: pdf(1.41 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

24 State-of-the-art presentations: Distributed component technologies and their software




engineering implications

Wolfgang Emmerich

May 2002 **Proceedings of the 24th International Conference on Software Engineering ICSE '02**

Publisher: ACM Press

Full text available:  pdf(1.27 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this state of the art report, we review advances in distributed component technologies, such as the Enterprise Java Beans specification and the CORBA Component Model. We assess the state of industrial practice in the use of distributed components. We show several architectural styles for whose implementation distributed components have been used successfully. We review the use of iterative and incremental development processes and the notion of model driven architecture. We then assess the st ...

25 Ubiquitous WWW: Profiles for the situated web



Lalitha Suryanarayana, Johan Hjelm

May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**

Publisher: ACM Press

Full text available:  pdf(263.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The World Wide Web is evolving into a medium that will soon make it possible for conceiving and implementing situation-aware services. A situation-aware or situated web application is one that renders the user with an experience (content, interaction and presentation) that is so tailored to his/her current situation. This requires the facts and opinions regarding the context to be communicated to the server by means of a profile, which is then applied against the description of the application o ...

Keywords: CC/PP, XML, profiles, situated-aware applications, vocabulary, web architecture

26 Institutional and web activities: Web access for elderly citizens



Vicki L. Hanson

May 2001 **Proceedings of the 2001 EC/NSF workshop on Universal accessibility of ubiquitous computing: providing for the elderly WUAUC'01**

Publisher: ACM Press

Full text available:  pdf(501.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With elderly citizens becoming an increasingly large proportion of the population in many countries, social as well as economic considerations suggest that they must be considered in the development of current and future technologies. This paper addresses issues of Internet access, and discusses a research project designed to make the web more usable

by elderly citizens. This project uses a proxy server to transcode web pages according to user-specified preferences and capabilities. Users access ...

Keywords: aging, disabilities, internet, seniors, transcoding

27 upFRONT

January 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html](#)(35.60 KB) Additional Information: [full citation](#), [index terms](#)



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